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Water-Data Report 2008

**08058900 East Fork Trinity River at McKinney, TX**

Upper Trinity Basin  
East Fork Trinity Subbasin

LOCATION.--Lat 33°14'38", long 96°36'31" referenced to North American Datum of 1927, Collin County, TX, Hydrologic Unit 12030106, at downstream side of highway embankment near left end of main channel bridge on State Highway 5, 750 ft downstream from Honey Creek, 1.2 mi upstream from Southern Pacific Railway Co. bridge, 1.7 mi upstream from Clemons Creek, 3.3 mi north of McKinney, 26.1 mi upstream from Lavon Dam, and 86.5 mi upstream from mouth.

DRAINAGE AREA.--164 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Oct. 1975 to current year. Water-quality records: Chemical data: Oct. 1980 to Sept. 1982, Nov. 1985 to July 1987, Oct. 1992 to Aug. 1995, June 2001, July 2002, May 2007. Biochemical data: Oct. 1980 to Aug. 1982, Nov. 1985 to July 1987. Biological data: June 1993. Pesticide data: Oct. 1992 to May 1994, June 2001, July 2002, May 2007. Radiochemical data: Jan. to July 1981, Oct. 1992, May 2007. Sediment data: Oct. 1992.

GAGE.--Water-stage recorder. Datum of gage is 528.74 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. Since installation of gage, at least 10% of contributing drainage area has been regulated. Small diversions for irrigation above the station are made at times. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1913, about 28 ft in Apr. 1942 (discharge not determined), from information by Texas Department of Transportation.

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**08058900 East Fork Trinity River at McKinney, TX—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.31	0.96	3.2	25	11	38	158	54	28	6.5	0.05	0.47
<b>2</b>	0.24	0.78	3.2	21	11	38	123	52	21	5.5	0.05	0.43
<b>3</b>	3.1	0.80	2.4	18	11	2,650	115	45	17	4.5	0.05	0.46
<b>4</b>	15	0.70	2.1	18	12	1,770	647	35	13	4.1	0.05	0.41
<b>5</b>	9.0	0.69	2.3	20	17	1,100	382	61	11	9.7	0.06	0.49
<b>6</b>	3.2	0.61	2.4	21	21	718	227	92	8.4	6.6	0.06	0.37
<b>7</b>	2.8	0.48	2.3	21	16	858	166	85	11	3.4	0.06	0.24
<b>8</b>	3.2	0.42	2.2	20	14	829	136	140	9.4	2.6	0.06	0.22
<b>9</b>	2.1	0.44	2.1	19	12	457	152	69	7.4	1.7	0.06	0.32
<b>10</b>	2.2	0.63	2.1	27	11	1,480	402	49	25	3.9	0.06	0.56
<b>11</b>	1.7	0.66	4.4	26	11	837	328	39	40	2.4	0.13	1.2
<b>12</b>	1.4	0.83	19	18	21	455	181	31	31	1.4	0.10	0.84
<b>13</b>	1.2	0.94	43	15	18	347	132	31	26	0.94	0.06	1.3
<b>14</b>	1.1	0.84	34	14	15	285	111	747	21	0.83	0.06	2.5
<b>15</b>	94	0.71	44	13	14	231	101	455	18	0.68	5.1	1.5
<b>16</b>	45	0.70	37	13	579	177	94	247	15	0.66	4.0	1.2
<b>17</b>	28	0.66	28	13	1,310	150	99	130	22	0.56	0.96	0.69
<b>18</b>	15	0.75	24	12	455	2,380	1,050	78	35	0.45	0.83	0.40
<b>19</b>	8.9	1.0	21	12	240	5,100	403	58	30	0.36	35	0.57
<b>20</b>	4.8	1.0	18	11	165	1,450	248	49	33	0.30	422	0.49
<b>21</b>	2.8	1.2	17	11	118	955	174	40	31	0.26	61	0.44
<b>22</b>	4.5	1.1	16	13	95	774	136	35	25	0.25	34	0.44
<b>23</b>	8.6	1.1	14	13	75	656	120	31	21	0.19	28	0.30
<b>24</b>	5.3	1.0	9.1	13	63	524	1,620	28	18	0.19	17	0.25
<b>25</b>	3.2	12	9.0	12	57	386	354	25	15	0.18	7.8	0.13
<b>26</b>	1.9	16	16	12	50	316	218	22	20	0.13	3.2	0.08
<b>27</b>	1.3	11	101	12	44	264	133	136	16	0.10	1.6	0.07
<b>28</b>	1.1	6.6	56	13	42	218	88	213	11	0.08	1.1	0.08
<b>29</b>	1.1	4.6	43	13	39	183	72	72	8.0	0.06	0.84	0.20
<b>30</b>	0.89	3.8	34	12	---	168	62	46	9.0	0.06	0.69	0.23
<b>31</b>	1.1	---	29	11	---	160	---	34	---	0.06	0.53	---
<b>Total</b>	274.04	73.00	640.8	492	3,547	25,954	8,232	3,229	596.2	58.64	624.56	16.88
<b>Mean</b>	8.84	2.43	20.7	15.9	122	837	274	104	19.9	1.89	20.1	0.56
<b>Max</b>	94	16	101	27	1,310	5,100	1,620	747	40	9.7	422	2.5
<b>Min</b>	0.24	0.42	2.1	11	11	38	62	22	7.4	0.06	0.05	0.07
<b>Ac-ft</b>	544	145	1,270	976	7,040	51,480	16,330	6,400	1,180	116	1,240	33

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2008, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	72.4	112	133	112	190	241	156	227	141	39.1	6.35	5.82
<b>Max</b>	1,022	1,120	1,160	805	987	837	804	1,704	1,039	643	92.7	64.0
(WY)	(1982)	(1995)	(1992)	(1998)	(2001)	(2008)	(1990)	(1982)	(2007)	(2007)	(2007)	(1994)
<b>Min</b>	0.00	0.00	0.00	0.00	1.37	2.30	1.94	1.98	0.00	0.00	0.00	0.00
(WY)	(1978)	(1978)	(1978)	(1978)	(1976)	(1976)	(2006)	(2004)	(2006)	(1984)	(1980)	(1977)

**08058900 East Fork Trinity River at McKinney, TX—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2007</b>	<b>Water Year 2008</b>	<b>Water Years 1976 - 2008</b>
<b>Annual total</b>	88,526.91	43,738.12	
<b>Annual mean</b>	243	120	119
<b>Highest annual mean</b>			373
<b>Lowest annual mean</b>			4.65
<b>Highest daily mean</b>	5,780	Apr 25	26,800 May 13, 1982
<b>Lowest daily mean</b>	0.21	Sep 30	0.00 Aug 18, 1976
<b>Annual seven-day minimum</b>	0.31	Sep 26	0.00 Aug 18, 1976
<b>Maximum peak flow</b>			61,800 May 13, 1982
<b>Maximum peak stage</b>			22.17 May 13, 1982
<b>Annual runoff (ac-ft)</b>	175,600	86,750	86,420
<b>10 percent exceeds</b>	741	253	235
<b>50 percent exceeds</b>	25	13	13
<b>90 percent exceeds</b>	1.1	0.30	0.00

